Product Name: Cisplatin
CAS Number: 15663-27-1
IUPAC Name: \( \text{cis-Diaminodichloroplatinum} \)

1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula: \( \text{Cl}_2\text{H}_6\text{N}_2\text{Pt.}\frac{1}{4}\text{H}_2\text{O} \)
   Batch Molecular Weight: 304.55
   Physical Appearance: Yellow solid
   Solubility: water to 5 mM with gentle warming
   Storage: Store at RT
   Batch Molecular Structure:

\[
\begin{array}{c}
   \text{Cl} & \text{Pt} & \text{Cl} \\
   \text{H}_2\text{N} & \text{Pt} & \text{NH}_2
\end{array}
\]

2. ANALYTICAL DATA

   Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
<th>Platinum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>2.15</td>
<td>9.2</td>
<td>64.06</td>
<td></td>
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<tr>
<td>Found</td>
<td>2.15</td>
<td>9.25</td>
<td>63.72</td>
<td></td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Information

Product Name: Cisplatin
CAS Number: 15663-27-1
IUPAC Name: cis-Diaminodichloroplatinum

Catalog No.: 2251
Batch No.: 3
EC Number: 239-733-8

Description:

Physical and Chemical Properties:
Batch Molecular Formula: Cl₂H₆N₂Pt.½H₂O
Batch Molecular Weight: 304.55
Physical Appearance: Yellow solid

Batch Molecular Structure:

Storage: Store at RT

Solubility & Usage Info:
water to 5 mM with gentle warming
Even though it is soluble in DMSO, the use of DMSO to dissolve cisplatin in biological studies is not recommended. The DMSO was found to insert itself into the ligand.

Stability and Solubility Advice:
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:
